

GKN Driveline International GmbH
Hauptstrasse 130
53797 Lohmar

22nd September 2004
Oy/-- (20040464)
Q04052W000

**Longitudinal plunging unit permitting axial positioning
of the cage**

Abstract

The invention relates to a longitudinal plunging unit for the transmission of torque in a drive assembly. It comprises a profiled sleeve 21 with circumferentially distributed, longitudinally extending first ball grooves 22; a profiled journal 11 with circumferentially distributed, longitudinally extending second ball grooves 12; balls 31 which are arranged in groups of pairs of first and second ball grooves 12, 22; a ball cage 41 which is arranged between the profiled sleeve 21 and the profiled journal 11 and fixes the balls 31 in their positions relative to one another; and spring means 51 which are supported on at least one axial stop 42, 43 and designed in such a way that, in an unloaded condition, the ball cage 42 is held at a distance from the at least one axial stop 42, 43.

Figure 1